

Quiz Date: 15<sup>th</sup> April 2020

**Directions (1-5):** Refer to the table given below and answer the given questions.

Table shows the 5 colony and total population and percentage of males, females and children in each colony in year 2016. Some data are missing, find the missing data to answer the given questions.

Colony	Total population	Percentage of males	Percentage of females	Percentage of children
A	2400	25%	—	—
B	—	—	40%	20%
C	—	50%	20%	—
D	800	—	—	16%
E	—	—	24%	36%

**Note :** Don't treat children as male or female. Treat them separately.

Q1. If the ratio of population of females and children in colony A in year 2016 is 3 : 7, and female in colony A in year 2017 is increased by 20% from that of year 2016, then find the total number of males and children in colony A in year 2017 so that overall population in year 2017 is same as in year 2016 ?

- (a) 1752
- (b) 1852
- (c) 888
- (d) 982
- (e) 1527

Q2. If number of children in colony C in year 2016 is 180 and ratio of male and females in colony D in year 2016 is 1 : 2, then find the difference of males in colony C and colony D?

- (a) 96
- (b) 86
- (c) 76
- (d) 55
- (e) 67

Q3. If total population of colony B and colony C together in year 2016 is 25% more than the total population of colony A in year 2016 and ratio of total population of colony B and colony C in year 2016 is 2 : 3, then find the ratio of males in colony B to children in colony C in year 2016 ?

- (a) 9 : 8
- (b) 8 : 9
- (c) 2 : 3

- (d) 3 : 5  
(e) 3 : 2

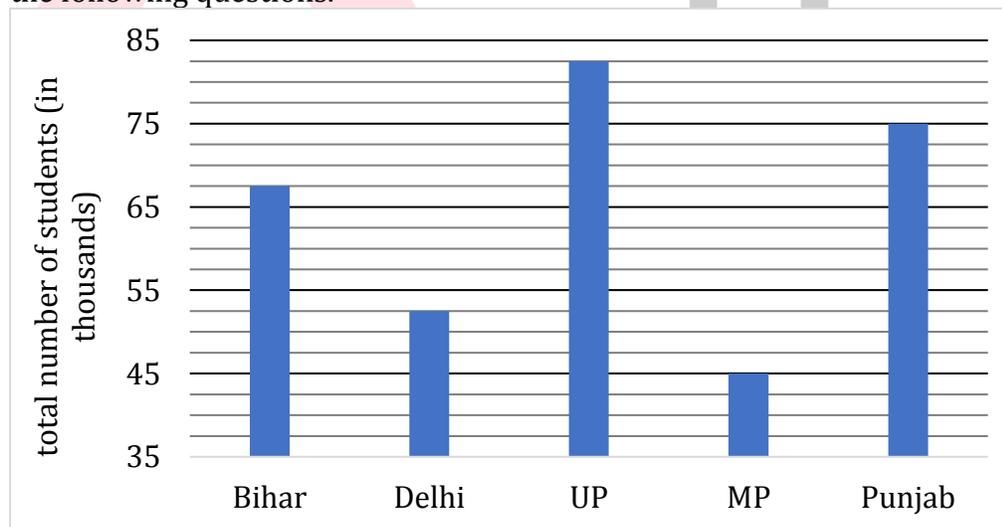
Q4. If ratio of males of colony D in year 2016 to the females in colony A in year 2016 is 2 : 5 and population of children in colony A is increased by 20% in year 2017 from year 2016, then find the total population of children in year 2017 in colony A ?

- (a) 2000  
(b) 1200  
(c) 1500  
(d) cannot be determined  
(e) None of these

Q5. If ratio of total population of colony C to colony E in year 2016 is 5 : 4, then number of males in colony E in year 2016 is what percent more or less than the number of children in colony C in year 2016 ?

- (a) 5.67%  
(b) 12%  
(c) 10%  
(d) 3.334%  
(e) 6.67%

**Directions (6-10):** The following bar graph and table show the total number of students who were appeared for SSC CGL TIER 1 exam in 2016 from five different states and ratio of male to female in them of five different states of India. Study the graph carefully to answer the following questions.



States	Male : Female
Bihar	5 : 4
Delhi	11 : 4
UP	3 : 2
MP	5 : 1

Punjab	17 : 8
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Note : Ratio of male to female remain same for TIER 1 and TIER 2 both.

Q6. If 20% students from Bihar have qualified for TIER 2 then total no. of male students in Bihar who have qualified for TIER 2 is approximately what percent of total no. of students from Bihar who did not qualify for TIER 2 ?

- (a) 18%
- (b) 14%
- (c) 12%
- (d) 11%
- (e) 10%



Q7. What is the difference of male and female students from Punjab (in thousands)?

- (a) 27
- (b) 22
- (c) 35
- (d) 32
- (e) 18

Q8. If three fifth of total students of Delhi are qualified for TIER 2 then what is the ratio of male students who are qualified from Delhi to the total students who were not qualified from Delhi ?

- (a) 12 : 13
- (b) 13 : 12
- (c) 10 : 11
- (d) 11 : 10
- (e) 9 : 11

Q9. What is the difference between average of male students and average of female students who are qualified from all the five states?

- (a) 20,200
- (b) 21,100
- (c) 20,110
- (d) Cannot be determined
- (e) None of these

Q10. If 10% , 20% and 25% students leave the TIER 1 exam due to some internal reasons in states Bihar, MP and Panjab respectively then what is the ratio of total students who have given the TIER 1 exam from these states respectively?

- (a) 51 : 40 : 45
- (b) 40 : 45 : 51
- (c) 27 : 16 : 25
- (d) 16 : 27 : 18
- (e) 27 : 25 : 16

**Directions (11-15):** What should come in place of the question mark (?) in following number series problems?

Q11. 4, 8, ?, 42, 91, 212

- (a) 16
- (b) 34
- (c) 25
- (d) 22
- (e) 17

Q12. 5616, 1872, 468, 156, ?, 13

- (a) 39
- (b) 52
- (c) 26
- (d) 65
- (e) 78

Q13. 119, 176, 260, 371, 509, ?

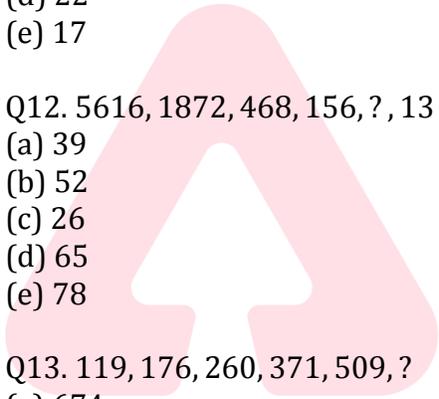
- (a) 674
- (b) 628
- (c) 672
- (d) 703
- (e) 670

Q14. 4, 10, 40, 190, 940, ?

- (a) 4690
- (b) 2930
- (c) 5140
- (d) 3680
- (e) 4960

Q15. 123, 129, 147, 185, 251, ?

- (a) 365
- (b) 323
- (c) 353
- (d) 335



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(e) 533

**Solutions**

S1. Ans.(a)

Sol.

Let population of females and children in colony A be  $3x$  and  $7x$  respectively.

$$\therefore 10x = \frac{75}{100} \times 2400$$

$$x = 180$$

$$\text{No. of females in colony A in year 2017} = 540 \times \frac{120}{100}$$

$$= 648$$

$$\therefore \text{Required no. of males and children together in colony A in 2017} = 2400 - 648$$

$$= 1752$$



S2. Ans.(c)

Sol.

$$\text{Total no. of males in colony C} = \frac{50}{100} \times \frac{100}{30} \times 180$$

$$= 300$$

$$\text{No. of males in colony D} = \frac{1}{3} \times \frac{84}{100} \times 800$$

$$= 224$$

$$\therefore \text{Required difference} = 300 - 224$$

$$= 76$$

S3. Ans.(b)

Sol.

Total population of males in colony B

$$= \frac{40}{100} \times \frac{2}{5} \times \frac{125}{100} \times 2400$$

$$= 480$$

$$\text{And that of children in colony C} = \frac{30}{100} \times \frac{3}{5} \times \frac{125}{100} \times 2400$$

$$= 540$$

$$\therefore \text{Required ratio} = \frac{480}{540} = 8 : 9$$

S4. Ans.(d)

Sol.

Let males in colony D =  $2x$

Females in colony A =  $5x$

Let population of children in colony A =  $a\%$

$\therefore$  No. of children in colony A in 2017 =  $\frac{6a}{5}\%$

From here we cannot find the required answer

S5. Ans.(e)

Sol.

Let total population of colony C =  $5x$

& that of colony E =  $4x$

Required Percent =  $\frac{0.4 \times 4x - 0.3 \times 5x}{0.3 \times 5x} \times 100$

$$= \frac{100}{15}\% = 6.67\%$$

S6. Ans.(b)

Sol.

No. of male students who have qualified for TIER 2 exam from Bihar

$$= \frac{20}{100} \times \frac{5}{9} \times 67,500$$

$$= 7500$$

No. of students from Bihar who did not qualify for TIER 2

$$= \frac{80}{100} \times 67,500$$

$$= 54,000$$

$\therefore$  Required percentage

$$= \frac{7500}{54000} \times 100$$

$$\approx 14\%$$

S7. Ans.(a)

Sol.

Required difference =  $\frac{9}{25} \times 75 = 27 \text{ thousands}$

S8. Ans.(d)

Sol.

Total male students qualified for TIER 2 from Delhi

$$= \frac{11}{15} \times \frac{3}{5} \times 52,500$$

$$= 23,100$$

Total students who were not qualified for TIER 2 from Delhi

$$= \frac{2}{5} \times 52,500$$

$$= 21000$$

$$\therefore \text{Required ratio} = \frac{23100}{21000} \\ = 11 : 10$$

S9. Ans.(d)

Sol.

Here, answer cannot be determined because we don't know how many students qualified for TIER 2 exam.

S10. Ans.(c)

Sol.

$$\text{Required ratio} = 0.9 \times 67.5 : 0.8 \times 45 : 0.75 \times 75 \\ = 27 : 16 : 25$$

S11. Ans.(e)

Sol. Pattern is  $+2^2, +3^2, +5^2, +7^2, +11^2$

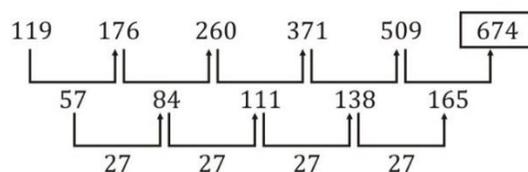
$$? = 8 + 3^2 = 17$$

S12. Ans.(a)

Sol. Pattern is  $\div 3, \div 4, \div 3, \div 4, \dots$

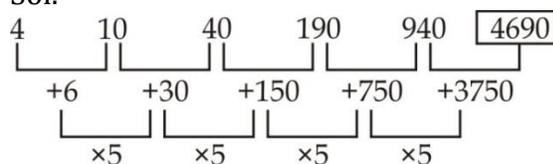
S13. Ans.(a)

Sol.



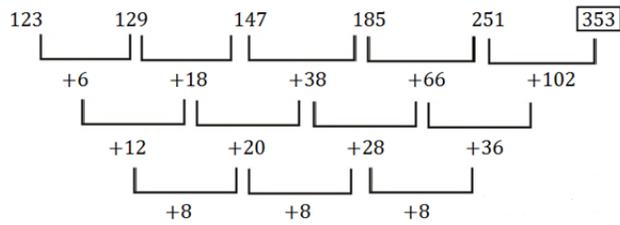
S14. Ans.(a)

Sol.



S15. Ans.(c)

Sol. Patterns is



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